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C-A OPERATIONS PROCEDURES MANUAL

8.16.3 Operating the LINAC Transport Cooling System

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Hand Processed Changes

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Collider-Accelerator Department Chairman Date

8.16.3 Operating the LINAC Transport Cooling System

1. Purpose

To provide operating instruction to the Water Systems technicians for this operation of the LINAC transport cooling system.

2. Responsibilities

Water Systems technicians start and stop this system.

3. Prerequisites

- 3.1 Startup - Request permission from LINAC control.
- 3.2 Verify that chilled water system is operating.
- 3.3 Shutdown - Request permission from LINAC control.
- 3.4 Qualified and trained Water Systems technician.

4. Precautions

Do not operate pumps without water or with valves closed.

5. Procedure

- 5.1 Verify that water level is within operating limits as marked on the transport expansion tank sight glass.
- 5.2 Open suction and discharge valves on selected pump.
- 5.3 Roll pump shaft by hand.
- 5.4 Reduce set point on pressure controller to 25 - 50 psi.
- 5.5 Turn on transport circuit breaker.
- 5.6 Start pump at local start/stop station.

- 5.7 Increase set point on pressure controller to original value (120 psi).
- 5.8 Check system pressure (120 psi), flow (300 gpm), and temperature (75NF) for proper settings and operation.
- 5.9 Observe pump operation and restore alarms.
- 5.10 Check system resistivity (0.5 - 1 megohm).
- 5.11 For shutdown, reduce pressure control setting, turn off pump, close suction and discharge valves, and secure alarms.

6. Documentation

- 6.1 Fill in "Status of Equipment" log for LINAC transport pump.

7. References

- 7.1 LINAC flow diagram, C.T. Main Drawing #2484-402-M3.

8. Attachments

- [8.1 C-A-OPM-ATT 8.16.1.a, "C-A Water Systems Status of Equipment Log".](#)